

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/807,442

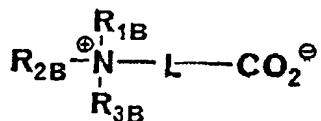
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

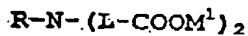
LISTING OF CLAIMS:

1. (currently amended): An inkjet ink set comprising at least two inks, wherein at least one ink contains a betaine compound and at least one other ink contains a nonionic surfactant,
and

(A) the betaine compound is a compound represented by one of formulae (5) and (7),



(5)



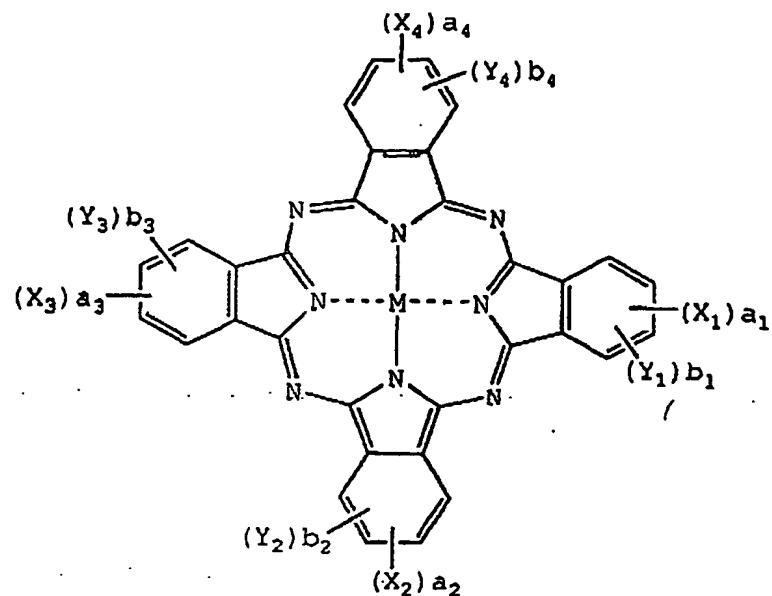
(7)

wherein at least one of R_{1B} to R_{3B} and L in the formula (5) contains a group having 8 or more carbon atoms, and at least one of R and L in the formula (7) contains a group having 8 or more carbon atoms; and

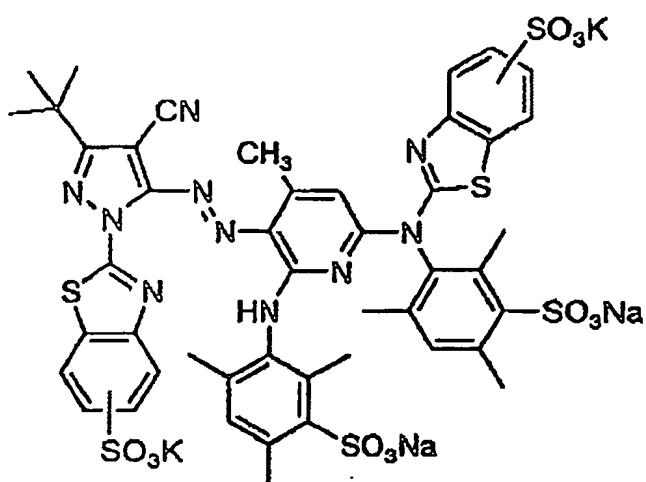
(B) the at least two inks contains a dye represented by one of formulae (CI), (M1), (Y1) and (BK2),

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CI

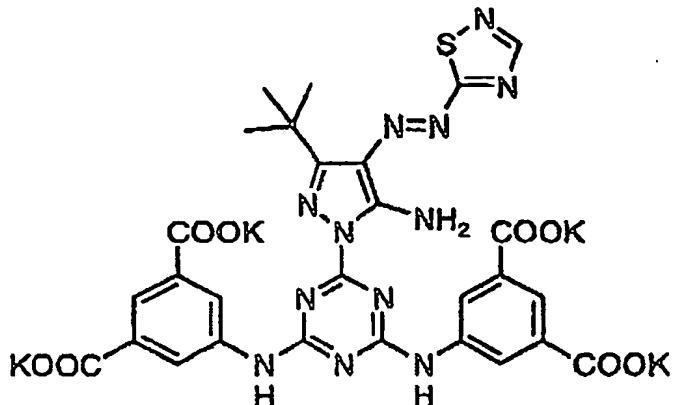


M-1

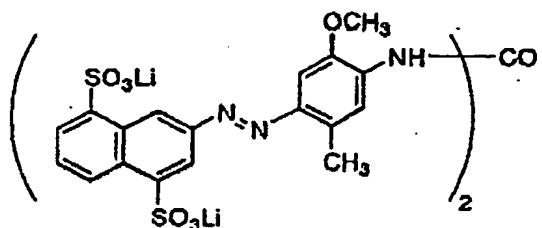


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Y-1



BK-2



wherein X_1 , X_2 , X_3 and X_4 in the formula (CI) each
independently represents $-SO-Z_c$, $-SO_2-Z_c$, $-SO_2NR_{1c}R_{2c}$ or $-CONR_{1c}R_{2c}$.

2. (original): The inkjet ink set according to claim 1, wherein at least one of the betaine compound is a compound represented by the following formula (1):

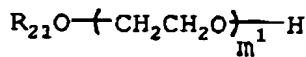


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wherein R represents a hydrogen atom, an alkyl group, an aryl group or a heterocyclic group; L represents a di- or more valent linking group; M represents a hydrogen atom, an alkali metal atom, an ammonium group, a protonated organic amine or nitrogen-containing heterocyclic group or a quaternary ammonium ion group, provided that when p+r is 4, one of Ms is not present; q represents an integer of 1 or more; r represents an integer of 1 to 4; p represents an integer of 0 to 4; p+r is 3 or 4 and when p+r is 4, the N atom becomes an ammonium atom; when q is 2 or more, COOMs may be the same or different; when r is 2 or more, L- (COOM)_qs may be the same or different; and when p is 2 or more, Rs may be the same or different.

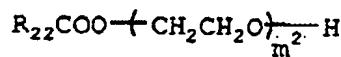
3. (original): The inkjet ink set according to claim 1, wherein the nonionic surfactant is a compound represented by the following formula (2), (3) or (4):

Formula (2):



wherein R₂₁ represents an alkyl group having from 5 to 40 carbon atoms and m¹ represents an average addition molar number of ethylene oxide and is a number of 2 to 40;

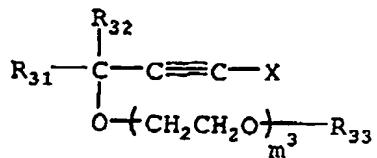
Formula (3):



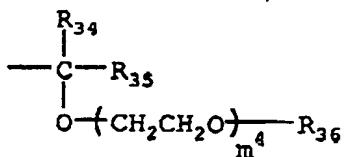
wherein R₂₂ represents an alkyl group having from 5 to 40 carbon atoms and m² represents an average addition molar number of ethylene oxide and is a number of 2 to 40;

Formula (4):

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wherein R_{31} and R_{32} each independently represents an alkyl group having from 1 to 18 carbon atoms, R_{33} represents a hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group and X represents a hydrogen atom or



, R_{34} and R_{35} each independently represents an alkyl group having from 1 to 18 carbon atoms, R_{36} represents a hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group, m^3 and m^4 each independently represents an average addition molar number of ethylene oxide, and m^3+m^4 is from 0 to 100, provided that when m^3 is 0, R_{33} represents a hydrogen atom, when m^4 is 0, R_{36} represents a hydrogen atom, and when X is a hydrogen atom, m^3 is from 1 to 100.

4. (original): The inkjet ink set according to claim 1, wherein at least one ink contains the betaine compound and at least one other ink contains a betaine compound and the nonionic surfactant.

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5. (original): The inkjet ink set according to claim 2, wherein at least one ink contains the betaine compound and at least one other ink contains a betaine compound and the nonionic surfactant.

6. (original): The inkjet ink set according to claim 3, wherein at least one ink contains the betaine compound and at least one other ink contains a betaine compound and the nonionic surfactant.

7. (currently amended): The inkjet ink set according to claim 1, wherein the betaine compound is a compound which has both of a cationic site and an anionic site in its molecule.

8. (currently amended): The inkjet ink set according to claim 7, wherein the cationic site is selected from the group consisting of an aminic nitrogen atom, a nitrogen atom of a heteroaromatic ring, and a phosphoric atom, and the anionic site is selected from the group consisting of a hydroxyl group, a thio group, a sulfonamido group, a sulfo group, a carboxyl group, an imido group, a phosphate group, and a phosphonate group.

9. (currently amended): The inkjet ink set according to claim 1, wherein the dye has an oxidation potential nobler than 1.0 V (vs. SCE).

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10. (currently amended): The inkjet ink set according to claim 1, wherein the dye has at least two heterocyclic groups.

11. (currently amended): The inkjet ink set according to claim 10, wherein the heterocyclic group is a 5-membered heterocyclic group or a 6-membered heterocyclic group in which hetero atom is at least one of N, O and S.

12. (currently amended): The inkjet ink set according to claim 10, wherein the heterocyclic group contains at least one of pyridine, thiophene, thiazole, benzothiazole, benzoxazole and furan rings.

13. (currently amended): The inkjet ink set according to claim 1, wherein at least one of the inks contains a phthalocyanine dye containing at least one of -SO-, -SO₂-, -CO- and -CO₂-.

14. (currently amended): An inkjet recording method, comprising recording an image in an inkjet printer by using comprising the inkjet ink set according to claim 1.

15. (currently amended): An inkjet recording method, comprising recording an image in an inkjet printer by using comprising the inkjet ink set according to claim 2.

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16. (currently amended): An inkjet recording method, comprising recording an image in an inkjet printer ~~by using~~ comprising the inkjet ink set according to claim 3.